







Don't copy PKI

Wrong with PKI

- The infrastructure is costly to install and maintain
- Creates cryptographic islands
 - The modern world doesn't work that way
- Expects users to understand security
 - They don't
 - They don't want to!

Right with IBE

- · Vastly reduced key handling
 - Easy to scale a single key server to work for everyone
 - 2 keys to talk to the world
- A great invention because it doesn't change the way you work!

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IBE Identity based key encapsulation

AES Symmetric Encryption

• "if it 'aint broke don't fix it"

- Symmetric encryption for the data

- IBE for the encryption keys

(i.e. do KEM/DEM)

Simplicity in implementation

- Model user experience on their existing process
- So for email:
 - Read / Compose in the normal email client
 - Push out the content don't pull back to a server to read
 - Online or offline
- Universal reach
 - Desktop
 - Gateway
 - Hosted
 - Mobile
 - Browser

Integration with other elements

- Email hygiene
 - AV
 - Spam
 - Sender reputation
- **Data Leak Protection**
- Access control
- Workflow

etc

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